

WHAT IS CLAIMED IS:

1. A portable wireless communication apparatus comprising:

an antenna composed of:

- 5 a first ground conductor;
 a second ground conductor;
 connection means configured so that signal
lines for electrically connecting prescribed circuits
respectively on said first ground conductor and said
10 second ground conductor and a conductor line for
supplying a high frequency signal to either one of said
first ground conductor and said second ground conductor
are integrated with each other through an insulator to
electrically connect said first ground conductor and said
15 second ground conductor together; and
 a feeder having one end connected to a part of
said connection means and the other end connected to a
feed point mounted to either one of said first ground
conductor and said second ground conductor to effect
20 feeding thereto.

2. The portable wireless communication apparatus
according to claim 1, wherein said connection means is a
flexible printed circuit board.

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3. The portable wireless communication apparatus
according to claim 2, wherein said conductor line is in a
form of a plated layer.

30 4. The portable wireless communication apparatus
according to claim 2, wherein said conductor line is

layered at least on a surface of said flexible printed circuit board in a thickness direction thereof.

5 5. The portable wireless communication apparatus according to claim 2, wherein said conductor line is provided at least along an edge of said flexible printed circuit board in a longitudinal direction thereof.

10 6. The portable wireless communication apparatus according to claim 2, wherein the opposite connection ends of said flexible printed circuit board are respectively connected to the vicinity of one edge of said first ground conductor and of the confronting one edge of said second ground conductor.

15 7. The portable wireless communication apparatus according to claim 1, further comprising a first casing; and a second casing connected to said first casing through a hinge part in a freely foldable manner;
20 wherein said first casing incorporates said first ground conductor; said second casing incorporates said second ground conductor; and said hinge part incorporates at least a part of said connection means.

25 8. A portable wireless communication apparatus comprising:

 an antenna composed of:

 a first ground conductor;

 a second ground conductor;

30 connection means configured so that signal lines for electrically connecting circuits respectively

on said first ground conductor and said second ground conductor and a conductor line for supplying a high frequency signal to either one of said first ground conductor and said second ground conductor are integrated
5 with each other through an insulator to electrically connect said first ground conductor and said second ground conductor together; and

a feeder having one end connected to a part of either one of said first ground conductor and said second
10 ground conductor and the other end connected to a feed point mounted to the other ground conductor to effect feeding thereto.

9. The portable wireless communication apparatus
15 according to claim 8, wherein said connection means is a flexible printed circuit board.

10. The portable wireless communication apparatus
according to claim 9, wherein said conductor line is in a
20 form of a plated layer.

11. The portable wireless communication apparatus
according to claim 9, wherein said conductor line is
layered at least on a surface of said flexible printed
25 circuit board in a thickness direction thereof.

12. The portable wireless communication apparatus
according to claim 9, wherein said conductor line is
provided at least along an edge of said flexible printed
30 circuit board in a longitudinal direction thereof.

13. The portable wireless communication apparatus according to claim 9, wherein the opposite connection ends of said flexible printed circuit board are respectively connected to the vicinity of one edge of said first ground conductor and of the confronting one edge of said second ground conductor.

14. The portable wireless communication apparatus according to claim 9, wherein one end of said flexible printed circuit board is connected to the vicinity of one edge of the ground conductor having the feed point from out of one edge of said first ground conductor and the confronting one edge of said second ground conductor, with the other end of said flexible printed circuit board being connected to the vicinity of the other edge at the side opposite to said one edge of the ground conductor to which feeding is effected.

15. The portable wireless communication apparatus according to claim 9, wherein one end of said flexible printed circuit board is connected to the vicinity of one edge of the ground conductor having the feed point from out of one edge of said first ground conductor and the confronting one edge of said second ground conductor, with the other end of said flexible printed circuit board being connected to an intermediate part between said one edge of the ground conductor to which feeding is effected and the other edge at the side opposite to said one edge.

16. The portable wireless communication apparatus according to claim 15, wherein an additional flexible

printed circuit board electrically connected to said flexible printed circuit board is provided to extend from said intermediate part to said other edge.

5 17. The portable wireless communication apparatus according to claim 8, further comprising a first casing; and a second casing connected to said first casing through a hinge part in a freely foldable manner, wherein:

10 said first casing incorporates said first ground conductor;

said second casing incorporates said second ground conductor; and

15 said hinge part incorporates at least a part of said connection means.